Installing MacBook Pro 15" Retina Display Mid 2012 Right Fan

Written By: Brett Hartt

⚒ **TOOLS:**

- MacBook Pro and Air 5-Point Pentalobe Screwdriver (1)
- Spudger (1)
- T5 Torx Screwdriver (1)

⚙ **PARTS:**

- MacBook Pro 15" Retina Right Fan (1)

SUMMARY

Fans can be such blowhards, except when they blow out. Use this guide to help you replace a damaged, broken, or faulty right fan.
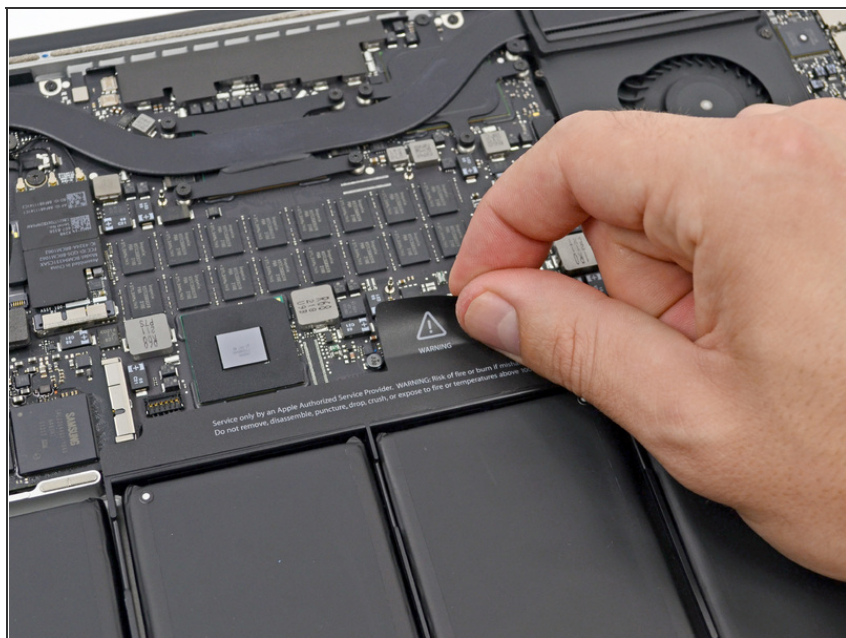
Step 1 — Lower Case

- Remove the following pentalobe screws securing the lower case to the MacBook Pro with Retina display.
  - Eight 3.0 mm
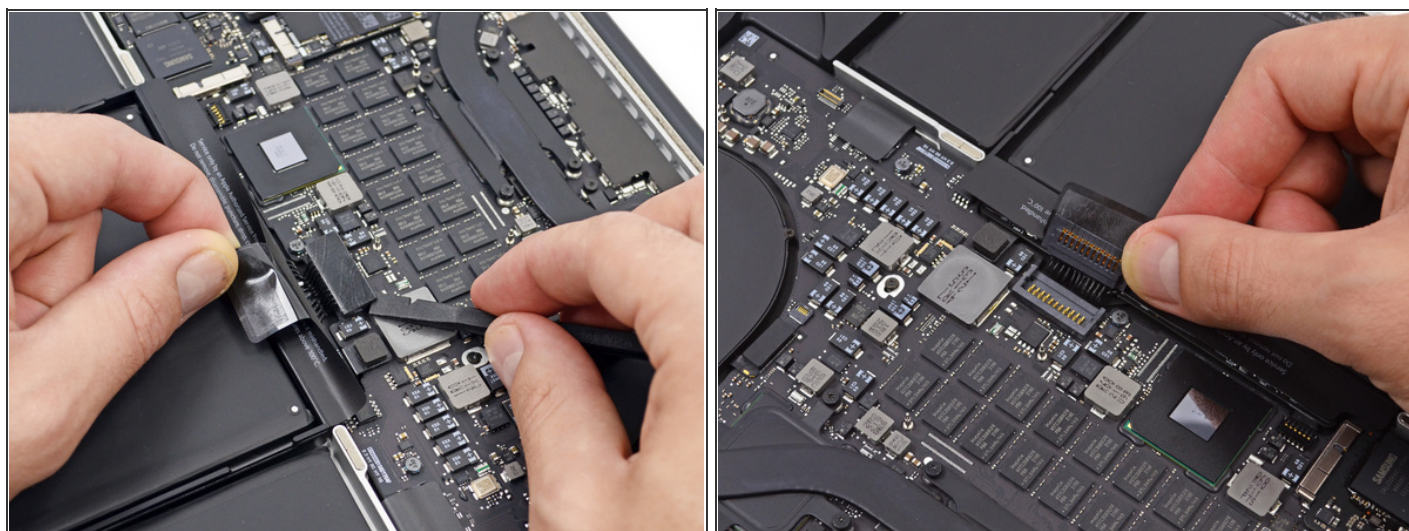 - Two 2.3 mm

Step 2

- Lifting from the edge nearest the clutch cover, lift the lower case off the MacBook Pro.
- Set the lower case aside.
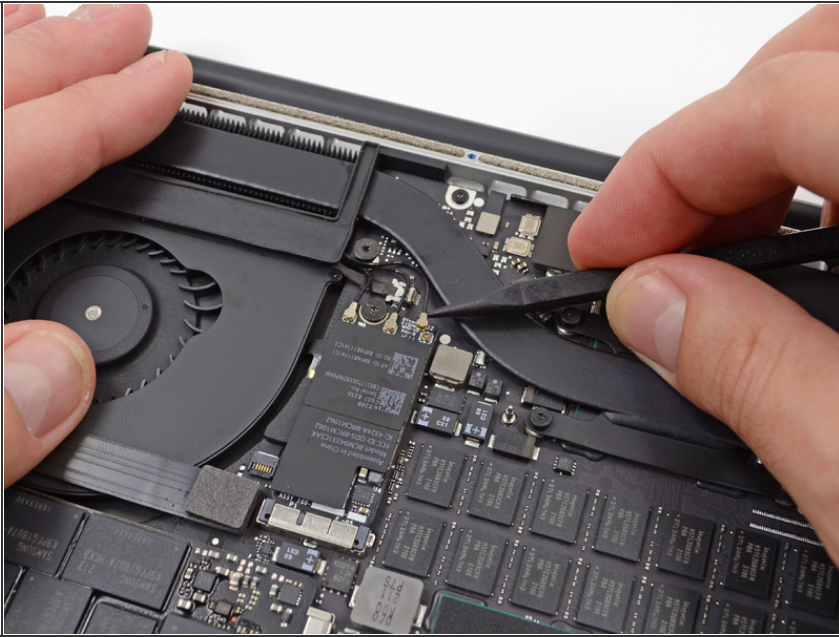
Step 3 — Battery Connector

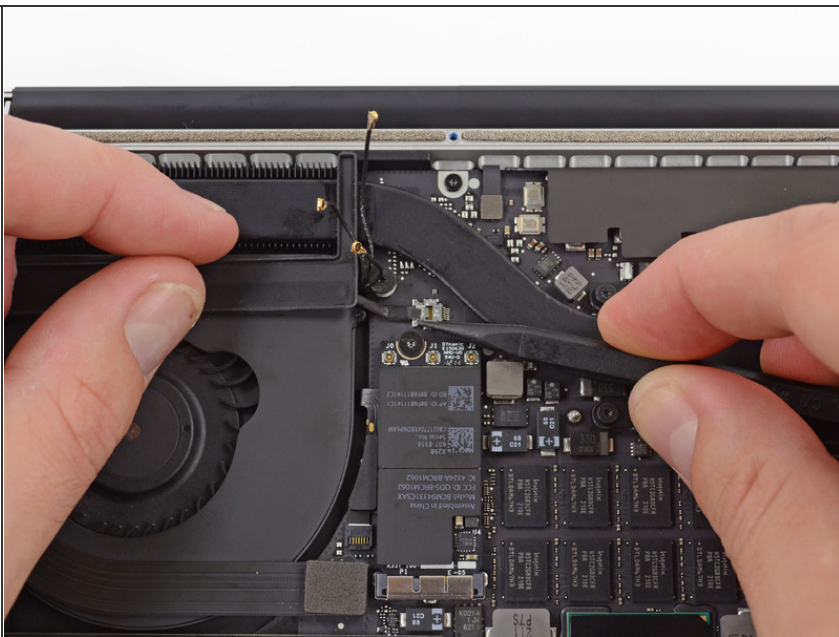- Peel back the warning label covering the battery connector.

Step 4

- Using the flat end of a spudger, gently pry the battery connector straight up out of its socket on the logic board.
- Bend the battery cables back and out of the way, ensuring that the battery connector doesn't accidentally make contact with the logic board.
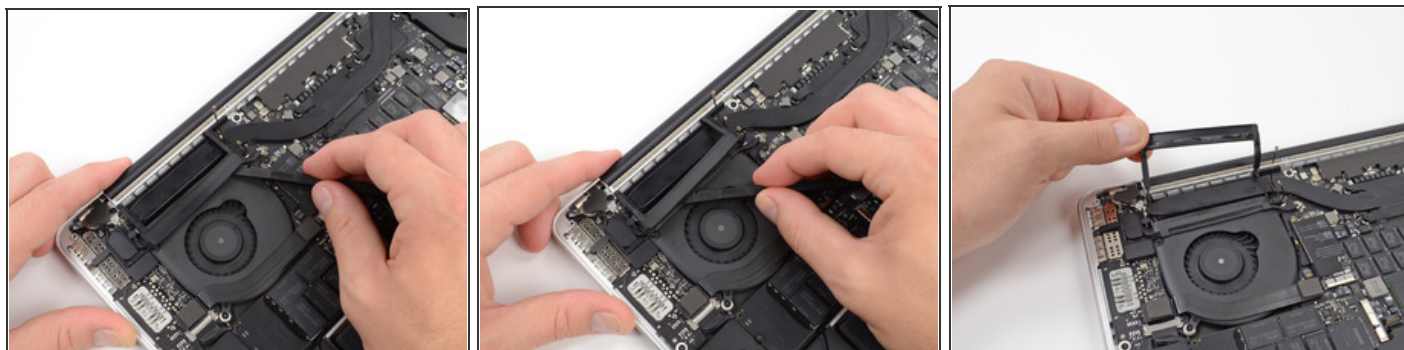
Step 5 — AirPort/Camera Cable

- Use the tip of a spudger to pry the three AirPort antenna cables straight up off of their sockets on the AirPort board.
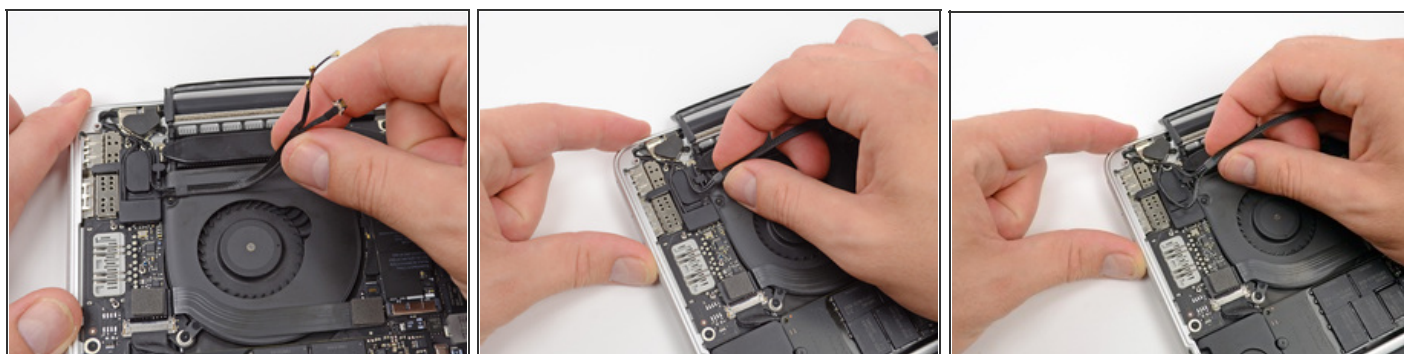
Step 6

- Use the tip of a spudger to push the camera cable connector out of its socket on the logic board.
  - Be sure to push parallel to the board, pushing first on one side, then the other to "walk" the connector out of its socket.

Step 7

- Insert the flat end of a spudger underneath the rubber heat sink cover on the right fan.

- Slide the spudger underneath the length of the cover, releasing the adhesive.

- Lift the cover and flip it back so that you can access the cables underneath.
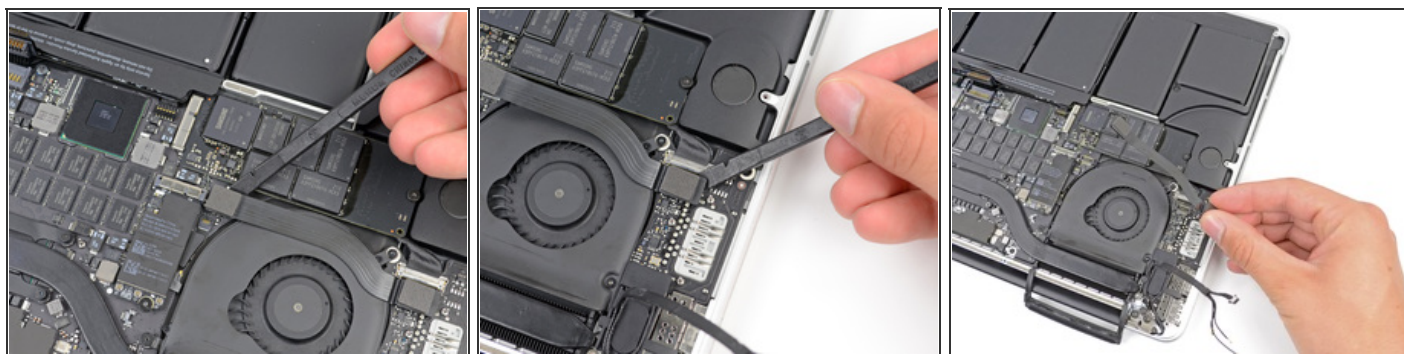
Step 8

- Use your fingers to pull the AirPort/Camera cables up off the fan.

  - The cables are adhered to the fan, so peel them up carefully to prevent ripping any.

- Carefully de-route the cables from the plastic cable guide.
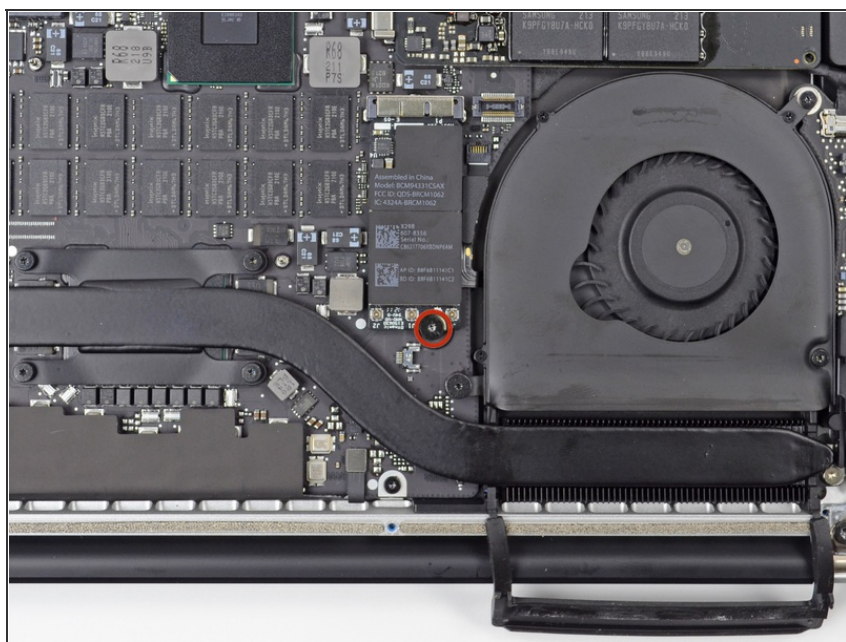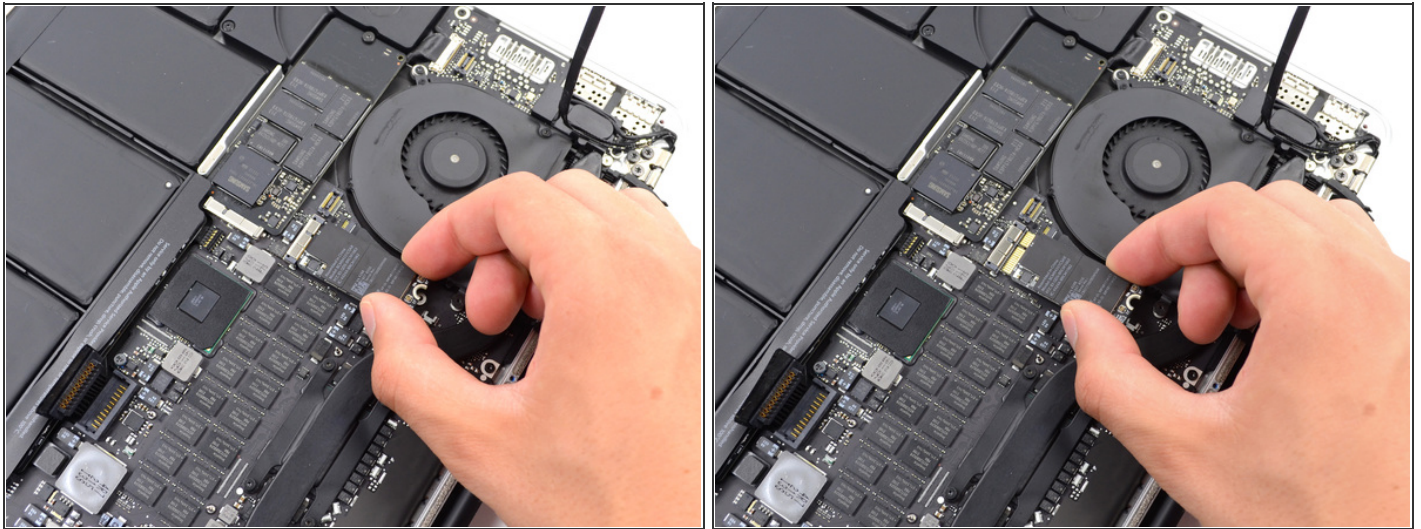
Step 9 — I/O Board Cable

- Using the flat end of a spudger, pry the I/O Board connector straight up out of its socket on the logic board.
- In a similar fashion, remove the I/O Board connector from its socket on the I/O Board.
- Remove the I/O Board cable from the MacBook Pro.
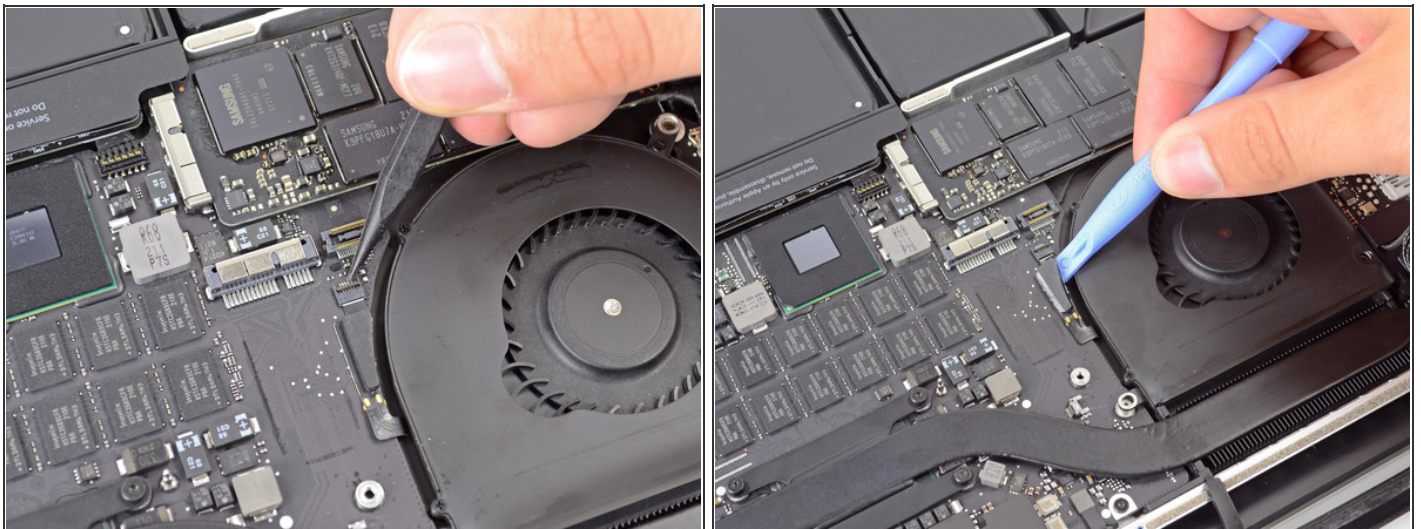
Step 10 — Right Fan

- Remove the single 2.9 mm T5 Torx screw securing the AirPort card to the logic board.

Step 11

- Grasp the side of the AirPort card and pull parallel to the logic board, removing the AirPort card from the MacBook Pro.
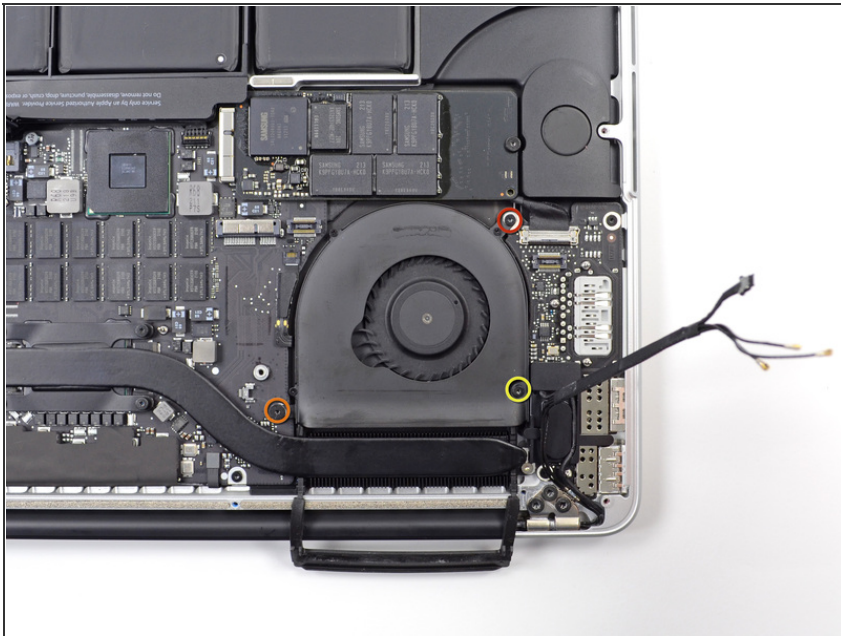
Step 12

- Use the tip of a spudger to flip up the retaining flap on the right fan ribbon cable ZIF socket.
- Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
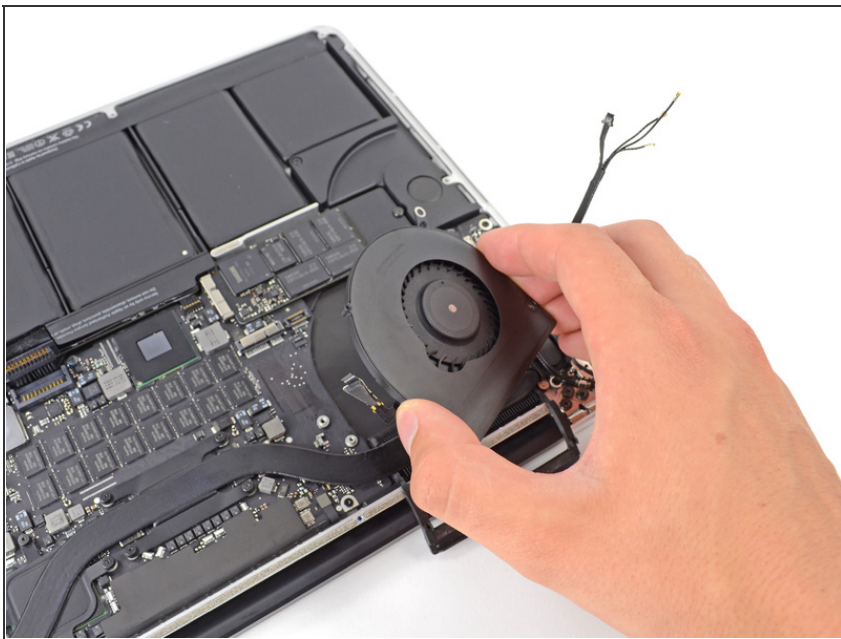- Gently pry up the right fan ribbon cable from the logic board.

Step 13

- Remove the following three screws securing the right fan to the logic board:
  - One 4.4 mm T5 Torx screw
  - One 3.9 mm T5 Wide Head Torx screw
  - One 5.0 mm T5 Torx screw

Step 14

- Lift and remove the right fan out from the MacBook Pro.

To reassemble your device, follow these instructions in reverse order.

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